



"UNIVERSAL"

SHOCK PROOF X-RAY EQUIPMENT
SHORT WAVE DIATHERMY EQUIPMENT
ULTRA SHORT WAVE DIATHERMY EQUIPMENT
ELECTRO-SURGICAL EQUIPMENT
GALVANIC CURRENT EQUIPMENT
MESSAGE WAVE CURRENT EQUIPMENT
COLONIC THERAPY EQUIPMENT

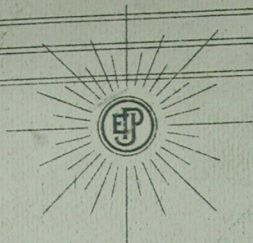
BODY-GRID COLD MERCURY QUARTZ LAMPS
ORIFICIAL COLD MERCURY QUARTZ LAMPS
LUMINOUS-INFRARED RAY LAMPS
CARBON ARC LAMPS
WATER COOLED LAMPS
HOSPITAL AND Y.M.C.A. SOLARIUMS
PHYSICAL THERAPY ACCESSORIES, ETC.

1907

THERE IS NO SUBSTITUTE FOR EXPERIENCE

1936

(C) - 1932 - Paul E. Johnson, Mfr. Chicago, U.S.A.
Form - "A" 7.



UNIVERSAL TECHNIQUE GUIDE

J. EDMOND BRYANT, M.D.
6 EAST GARFIELD BLVD.
CHICAGO, ILLINOIS

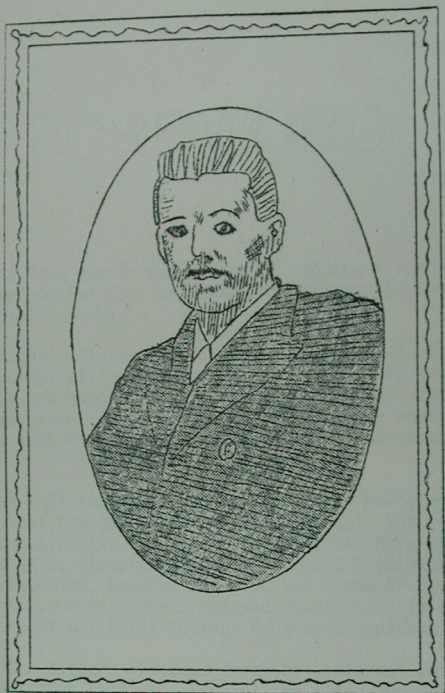
JOHNSON

J. EDMOND BRYANT, M.D.
6 EAST GARFIELD BLVD.
CHICAGO, ILLINOIS

THE ULTIMATE OF A PROVEN
THERAPY

To YOU

THE PROGRESSIVE PHYSICIAN
WHO WANTS TO KNOW
WHY
AS WELL AS
HOW
THIS BOOKLET
IS RESPECTFULLY DEDICATED



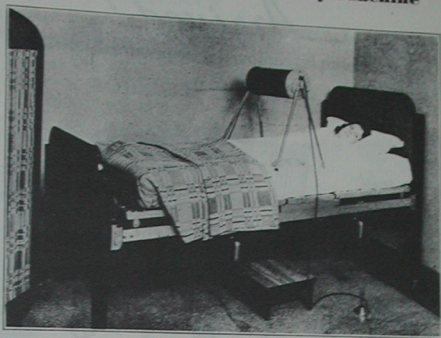
Nils Finsen.
Father of Scientific Heliotherapy.

Histories of all races and eras prove the antiquity of using Sunlight for promoting health - Hypocrates - the very Father of Medicine - used Light Therapy - as reference to his teachings will prove - But history records FINSEN as the first to show - "That rays of different wave lengths have different physiological effects, hence, DIFFERENT AND SPECIFIC CLINICAL INDICATIONS".

UNIVERSAL

Shock-Proof Portable X-Ray Machine

HANDS
ARMS
LEGS
FEET
HIPS
SPINES
CHESTS
HEADS
Etc.



A
COMPLETE
PORTABLE
UNIT
CONTAINED
IN ONE
CASE

Weight as shown above 37 lbs.

• A COMPACT UNIT OF HIGH EFFICIENCY

THE RESULT OF THE MOST MODERN SCIENTIFIC ENGINEERING.

Ample Voltage 10 Milliamperes with Automatic Compensating Regulation.

Adjustable for Height

Cylinder Rotates for Positions

Centering Indicators

Tube, Transformer and all Parts enclosed in Shock-Proof Cylinder

Complete with Connecting Cable, Foot Switch with Cable and Carrying Case, as shown on front page

Can be used for a most convenient bedside No heavy contraptions to move around

Hand Timer can be used on machine without Oil Contactor

No complicated technique—Just push the button

**You Won't Find Its
Equal at the Price!**



**WRITE FOR
PARTICULARS**

Covered by U. S. Patent No. 1893251
and others pending

PAUL E. JOHNSON, MFRS.
UNIVERSAL Physical Therapy Equipment
6745 Langley Ave., Chicago.

You can master its operation in thirty minutes. Its performance, simplicity and price will far exceed your expectations.

"UNIVERSAL"

ALL PURPOSE THERAPEUTIC LAMP.

A Combination Lamp embodying:-

Body grid mercury quartz cold ultra violet ray lamp.

Orificial mercury quartz cold ultra violet ray lamp.

Selective Ray high intensity water cooled carbon arc lamp,

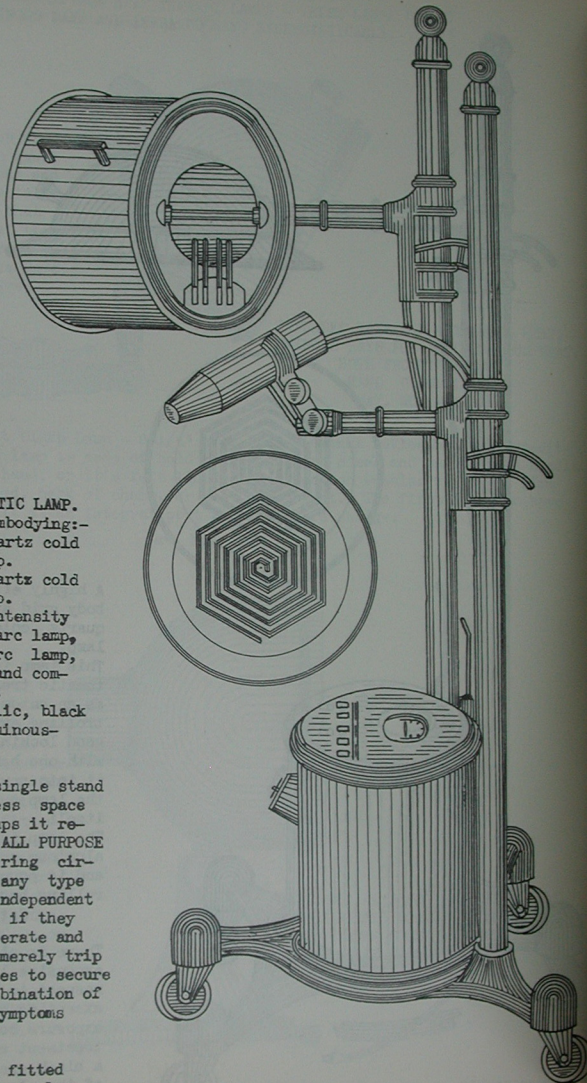
Air cooled carbon arc lamp, quiet in operation, and comparatively smokeless.

1150 watt, non-metallic, black body, synergistic Luminous-Infrared Ray Lamp.

Though mounted on a single stand that occupies even less space than most of the lamps it replaces, "UNIVERSAL" ALL PURPOSE Lamp's independent wiring circuits enable use of any type of rays as entirely independent of all other rays as if they were generated by separate and distinct lamps - you merely trip plainly marked switches to secure whichever kind or combination of rays your patient's symptoms indicate.

"UNIVERSAL" Lamps are fitted with automatic treatment alarm as well as an automatic switch controlling exposure time.

Cat. No. 1730Q.

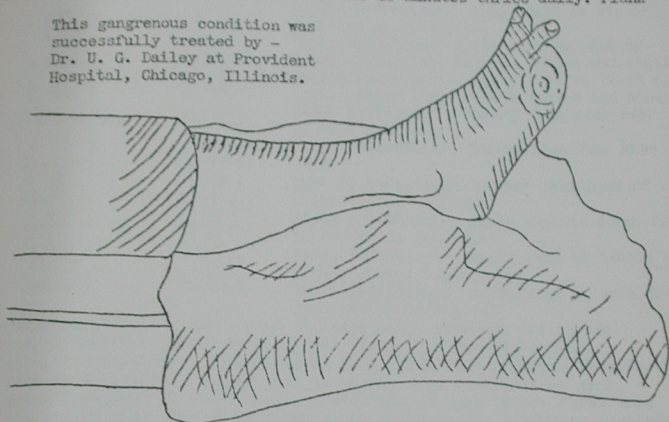


Red Rays and first degree erythema from Constructive Biological Ultra Violet Rays. See abscesses and carbuncles.

GANGRENE:-

General Tonic Treatment twice daily and Constructive Biological Ultra Violet Radiation applied to involved area for 30 minutes thrice daily. Plank

This gangrenous condition was successfully treated by -
Dr. U. G. Bailey at Provident Hospital, Chicago, Illinois.



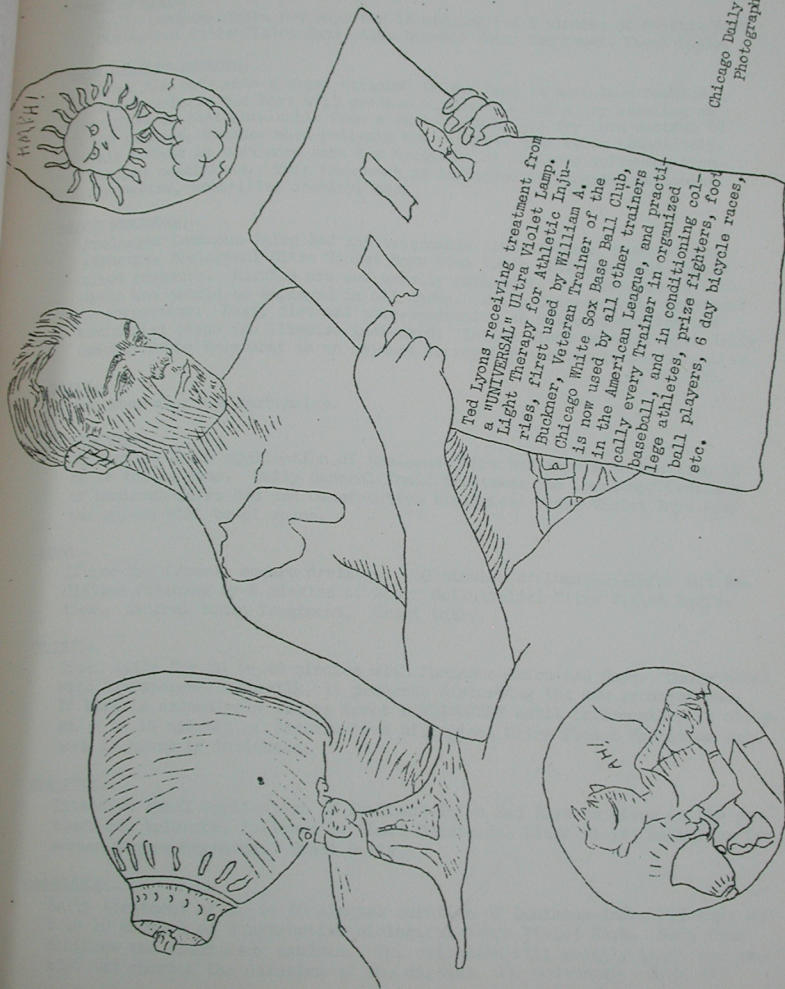
warns against the destructive effects of erythema doses in the treatment of gangrene. APPLY A GOOD ASEPTIC MOIST DRESSING and Luminous-Infra Red Rays continuously until healthy granulations have formed.

GASTRITIS - GASTRIC ULCER:-

Daily local Constructive Biological Ultra Violet Radiation and General Tonic Treatment. Also 10 minutes of Luminous-Infra Red Rays applied over abdominal area, Results are slow, but usually satisfactory.

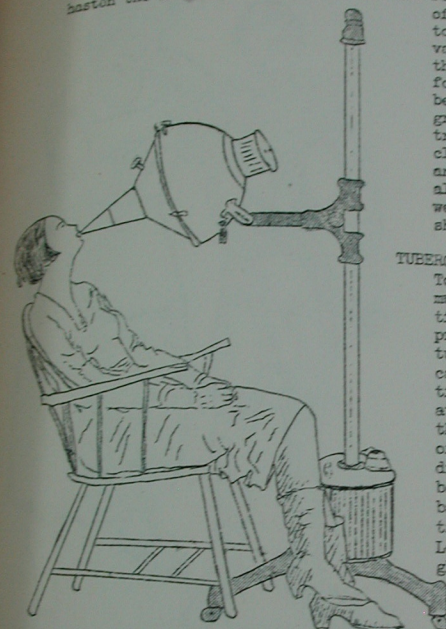
GENERAL TONIC TREATMENT:-

When applying Ultra Violet Rays for General Tonic Treatment, a mild first degree erythema is the usual index of ample radiation to insure results. Short treatments from Germicidal and Destructive Cellulicidal Ultra Violet Rays are very beneficial, but without question radiation from Long Constructive Biological Ultra Violet Rays will produce General Tonic effects that are far superior to any that can be obtained from Short Ultra Violet Rays. For the average person, the recommended distance from the arc during exposure is 20 inches. Tolerance to Light and Heat Rays varies with different individuals, the closer to the arc, the more effective and beneficial, while exposures at great distances are of less benefit. Exposures should always be taken in front of the lamp - NEVER UNDER THE LAMP - See Page 20. Be sure that area being exposed is in line and at right angles to the light. Subtract 1 minute from the number of minutes required to produce a first degree erythema, the remaining number of minutes should be given at each



Chicago Daily News
Photograph.

Constructive Ultra Violet Rays to both sides of the throat. This will hasten the subsidence of irritation and relieve congestion and soreness of glands and connective tissue, tonsil massage is of tremendous value. It is recognized that there will be a number of cases for which removal of tonsils will be indicated; when they have progressed to this stage, the above treatment hastens healing and clearing up of adjacent areas, and since a resultant toxemia is always present, daily or thrice weekly General Tonic Treatment should always be given.



ADAPTOR AND APPLICATORS OFFER 3 CONVENIENT SIZE OPENINGS - IDEAL FOR LOCALIZED OR ORIFICIAL RADIATION.

only takes place in about 50% of the cases kept under active treatment. Intestinal tuberculosis responds very readily. Improved appetite, decreased night sweats, and greater ability to sleep, are usually noticeable. Tubercular anemia being a factor, Ultra Violet Rays are of special value through increase of hemoglobin and lymph, there is a noticeable increase in ionizable calcium, (diathermy is frequently valuable in encouraging pancreatic, splenic and liver activity, so are Luminous-Infra Red Rays, sinusoidal or massage currents, properly applied).

Constructive Biological Ultra Violet Radiation, AVOIDING ERYTHEMA, are profoundly sedative and healing in tubercular peritonitis, even at times overcoming indications for surgical intervention.

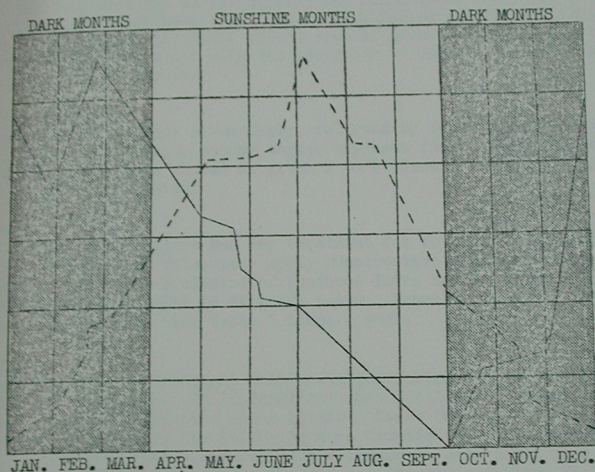
In intestinal tuberculosis, intravenous injection of calcium chloride and the use of pleuri-glandular compound containing parathyroid are used in connection with local and systemic Constructive Biological Ultra Violet irradiation.

TUBERCULOSIS:-

To improve assimilation, nutrition, muscular tone, and add to the patient's general well being is of primary importance in all types of tuberculosis. Convincing clinical history shows that Constructive Biological Ultra Violet Rays at least help to do all of these things, and to resist the spread of tubercular bacilli through adding to the blood's mineral metabolism, Vitamin "D" content, Etc., bactericidal and antitoxic properties.

Local radiation is indicated in glandular, bone, joint, peritoneal, or laryngeal manifestations as well as the General Tonic Treatment outlined below. Lancing of abscesses and other surgical treatment should not be omitted. Fever is usually stopped after a few weeks treatment, and recurrence

AS SUNSHINE INCREASES THE DEATH RATE DECREASES



————MORTALITY CURVE

-----SUNSHINE CURVE

There are other good 'General Tonics', but as the Metropolitan Life Insurance Company's Medical Department and thousands of physicians have pointed out:—"SUNLIGHT IS THE FINEST TONIC AND HEALTH BUILDER IN THE WORLD".

Reasons why Sunlight, or its artificial equivalents, are without equal as a general tonic and health builder are partially set forth in this brochure; that these facts deserve the most sincere consideration of every physician is brought out by above graphic illustration of statistics furnished by the United States Department of Commerce. As the graph illustrates, these statistics show that at the height of the Sunshine Season PRACTICALLY ONE THOUSAND FEWER PERSONS DIE DAILY.

Any influence that can save the lives of practically one thousand people each day should be used regularly by EVERY physician.



ONE
LAMP

ALL THERAPIES!

Write today for literature

"UNIVERSAL" LAMPS

**NOT IN THE
EXPERIMENTAL
STAGE**

SINCE — 1907

5

YEARS of concentrated study of just one thing, and a real understanding of the purpose of its being, are necessary before that thing can ever be truly fine—

"UNIVERSAL" LAMPS have had such development.

Over twenty year's experience gained in designing and manufacturing Ultra Violet, Sunshine & Infra-Red Lamps for Physicians, Hospitals and sanitariums is built into every "UNIVERSAL" LAMP.

5

**There is no substitute
for Experience**

PAUL E. JOHNSON, MFRS.,
6745 Langley Ave., Chicago, Ill.